06111P USA

PTO/SB/01 (03-01)

Approved for use through 10/31/2002, OMB 6651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Attorney Docket Number

DECLARATION FOR DESIGN		First Named Inv	First Named Inventor Welp, et al.					
PATENT APPLI	co	COMPLETE IF KNOWN						
(37 CFR 1.		Application Num						
	·	Filing Date						
Submitted OR	Declaration Submitted after Initial	Group Art Unit						
with Initial Filing	Filing (surcharge (37 CFR 1.16 (e)) required)	Examiner Name						
As a below page of interest 1 has	aber de alors Aleste							
As a below named inventor, I her	•	! E = 1	_					
My residence, mailing address, and	•	•			- 415 5 3			
I believe I am the original, first and names are listed below) of the subj								
Monolith Catalytic Reactor C	oupled to Static Mixe	er						
Proposition of the Control of the Co	-							
THE PROPERTY OF THE PROPERTY O								
CONTRACTOR								
	(Title of the	Invention)						
the specification of which	(Title Of the	i ijiv o riliorij						
is attached hereto		*						
OR :								
was filed on (MM/DD/YYYY)		as United St	ates Applicatio	on Number or PCT In	nternational			
					3			
Application Number	and was an	nended on (MM/DD/YY	YY)		(if applicable).			
	 		<u></u>					
	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above							
acknowledge the duty to disclose	l acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-							
in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.								
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s). or 365(a) of any PCT international application which designated at least one country other								
than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the								
application on which priority is clair Prior Foreign Application		Foreign Filing Date	Priority	Certified Co	py Attached?			
Number(s)	Country	(MM/DD/YYYY)	Not Claime		NO			
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	especial states							

[Page 1 of 2]

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

Burdon Hour Statement. This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time, you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office. Washington, DC 20231. DO NOT SEND FEES OR COMPLETED. FORMS TO THIS ADDRESS. SEND TO. Assistant Commissioner for Patents, Washington, DC 20231.

DECLARATION — Utility or Design Patent Application

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Name	Ai-	23 r Products	543 and Chemicals	s, Inc		
Address				-		
Address						
City			State		ZIP	
Country	Telephone	e			Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INVE	ENTOR:		A petition	has been fil	ed for this unsigned inventor	
Given Name (first and middle [if any]) Keith Allen			Family Nar or Surnam	ne Welp le		
Inventor's AliMallen	Welf				Date 17 Jonuary 2002	
Macungie Residence: City	/	PA State	US Co	A untry	USA Citizenship	
7267 Periwinkle Driv Mailing Address	ve					
Mailing Address						
Macungie City	PA State		ZIP	18062	USA Country	
NAME OF SECOND INVENTOR			A petition	n has been fi	led for this unsigned inventor	
Given Name (first and middle [if any]) Anthony Ro	cco		Family Na or Surnan	· vannan	0	
Inventor's Signature Little Court	otolan	>			17 January 2002 Date	
Orefield Residence: City		PA State		ISA Country	USA Citizenship	
1215 Boxwood Cou Mailing Address	urt					
Malling Address						
Orefield City	PA State		ZIP	1806	9 USA Country	
Additional inventors are being named	<u></u>	ental Additi		r(s) sheet(s) P7		

DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page <u>1</u> of 2

	T					
Name of Additional Joint Inventor, if any:						
Given Name (first and middle [if any])	Family Name	e or Surname				
David Joseph						
Inventor's Signature	anllo		15-Samara 2002 Date 1-15-02			
Schenectady Residence: City	NY State	USA Country	USA Citizenship			
Mailing Address 6005 Baneberry Drive						
Mailing Address						
City Schenectady	NY State	ZIP 12303 U	ISA ountry			
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Nam	e or Surname			
Richard Peter Boehme						
Inventor's Ochard Peter Boe		Date 1/18/2002_				
Allentown Residence: City	PA State	USA Country	USA Citizenship			
Mailing Address 1722 Piccadilly Circle	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					
Mailing Address						
Allentown City	PA State	18103-6463 ZIP	USA Country			
Name of Additional Joint Inventor, if an		A petition has been filed f				
Given Name (first and middle [if any])		Family Name or Surname				
Remalde Mario	Machado	Machado				
Inventor's Signature Way	w Merg	7-0-00	Date 1-17-02			
Allentown Residence: City	PA State	USA Country	USA Citizenship			
Mailing Address 128 Forsythia Lane						
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Mailing Address Allentown	PA	1810)4 USA			
City	State	ZIP	Country			

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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

Name of Additional Joint Inventor, if any	/;	A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])		Family Name or Surname					
Sylvia			Caram				
Inventor's Sylva (avay			Date 1/21/02				
Allentown Residence: City	PA State		SA ountry	1 -	USA Citizenship		
Mailing Address 412 Benner Road, Apt. 104		· · · · · · · · · · · · · · · · · · ·					
Mailing Address							
City Allentown	PA State	2	ZIP 18104 US	SA untry			
Name of Additional Joint Inventor, if an	y:	□ A	petition has been filed for	or this	unsigned inventor		
Given Name (first and middle [if any])			Family Name	or Su	mame		
-							
Inventor's Signature Date					Date		
Residence: City State			Country Citizenship				
Mailing Address							
Mailing Address							
			ZIP	C	•		
City Name of Additional Joint Inventor, if ar	State		petition has been filed to	Coun			
Given Name (first and middle [if any])		T			r Surname		
	· · · · · · · · · · · · · · · · · · ·						
Inventor's Signature		•			Date		
Residence: City	State		Country		Citizenship		
Mailing Address							
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PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	
Filing Date	
First Named Inventor	Welp, et al.
Title	Monolith Catalytic Reactor Coupled
Group Art Unit	
Examiner Name	
Attorney Docket Number	06111P USA

Practitioners at Customer Number OR Practitioner(s) named below: Name	I hereby appoir	nt:						/ / T T (I II I	1988 (1181 E)(): E18	
as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Practitioners at Customer Number. OR Firm or Individual Name Address City Country Telephone I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTOISBI96). SIGNATURE of Applicant or Assignee of Record Name William F. Marsh Signature Date Date NOTE: Signatures of all the inventors or sesigneed of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.	OR			er]_			2254	
as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: The above-mentioned Customer Number. OR Practitioners at Customer Number Individual Name Address Address City State I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name William F. Marsh Signature Date Date DITE: Signatures of all the inventors or assignee of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.	Practitione	er(s) na	med below:	·						•
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Telephone Fax I am the: Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name William F. Marsh Signature Marsh Date 21 Manuary 2002 NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.	City				<u> </u> s	tate			Zip	
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Applicant/Inventor. X Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name William F. Marsh Signature Date Date All Annuary 2000 NOTE: Signatures of all the inventors or assigneed of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.	Telephone					ax				
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Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name William F. Marsh Signature Date Date Date NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.	Applicant	/Invento	or.							
SIGNATURE of Applicant or Assignee of Record Name William F. Marsh Signature Date Date All Ganuary 2002 NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.										
Name William F. Marsh Signature Date Date Diffusion 2002 NOTE: Signatures of all the inventors or assigneed of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.	Statemen	t under	· 37 CFR 3.73(b)	is enclosed. (I	Form PTC)/SB/	96).			
Signature Date Date Date All Manuary 2003 NOTE: Signatures of all the inventors or assigneed of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.			SIGNATURE	of Applicant of	r Assigne	e of R	Record			
Date 21 January 2003 NOTE: Signatures of all the inventors or assigneed of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.	Name	Willia	n F. Marsh							
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STAT	EMENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: Welp, et al.	
	Filed/Issue Date:
Entitled: Monolith Catalytic Reactor Co	oupled to Static Mixer
	, a corporation
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:	
1. 🗵 the assignee of the entire right, title	e, and interest; or
2. an assignee of less than the entire The extent (by, percentage) of its of	right, title and interest.
in the patent application/patent identified	
A. [X] An assignment from the inventor(s was recorded in the United States which a copy thereof is attached.) of the patent application/patent identified above. The assignment Patent and Trademark Office at Reel, Frame, or for
OR	
assignee as shown below:), of the patent application/patent identified above, to the current To:
The document was recorded	in the United States Patent and Trademark Office at
	, or for which a copy thereof is attached.
2. From:	To:
	in the United States Patent and Trademark Office at, or for which a copy thereof is attached.
The document was recorded	in the United States Patent and Trademark Office at, or for which a copy thereof is attached.
[] Additional documents in the	chain of title are listed on a supplemental sheet.
[] Copies of assignments or other docum [NOTE: A separate copy (i.e., the orig must be submitted to Assignment Divi recorded in the records of the USPTO	inal assignment document or a true copy of the original document) ision in accordance with 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is supplied by	pelow) is authorized to act on behalf of the assignee.
31 January 2002	William F. Marsh
31 Yamuary 2002 Date	Typed or printed name (fill Signature
	Assistant General Counsel, Patents

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<u>ASSIGNMENT</u>

For value received, we, Keith Allen Welp, Anthony Rocco Cartolano, David Joseph Parrillo, Richard Peter Boehme, Reinaldo Mario Machado and Sylvia Caram, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

MONOLITH CATALYTIC REACTOR COUPLED TO STATIC MIXER

described in our application for Letters Patent of the United States (identified by Docket No. 06111P USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said AIR PRODUCTS AND CHEMICALS, INC., all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

Moth allen Welp (L.S.) Keith Allen Welp	Anthony Rocco Cartolano	(L.S.)
17 January 2002 Date	17 January 2002 Date	
David Joseph Parrillo (L.S.)	Richard Peter Brehme (Richard Peter Boehme	(L.S.)
15 January 2002	18 Jan 200Z	
Revield Merio Machaels.	Date XIII AMAM	'L.S.)
Reinaldo Mario Machado	Sylvia Caram	,
17 January 2002	21st January 2002	
Date $oldsymbol{\mathcal{G}}$	Date	